RICOH Americas Corporation

Product Support Guide
D135 / D136
Introduction

Model Type	Color MFP
Launch Date	July 15, 2013
Serial Number Prefix	E23 / E24
Product Code	**D135 / D136**

Brand/Model Name

Product Code	Lanier	Ricoh	Savin
D135 / D136	MP C6502SP/MP C8002SP	MP C6502SP/MP C8002SP	MP C6502SP/MP C8002SP

Product Concept :

Around 8 years have passed since we launched the first high volume office color B132/B200. Since then, we've been upgrading both hardware and controller specs based on the same engine till the D081/D082 in order to maintain and increase our competitiveness in the market. We've been positioning ourselves as a market leader with its high productivity, robust engine, and high image quality. Therefore, we will launch D135/D136, the next generation color engine MFP. With the Best image quality in the office segment MFP, enhanced paper handling capability, and ease of use for everyone we will maintain our position as a market leader

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New Features

Feature	Description
Chemical Toner	The D135 series adopts new chemical toner in order to enhance image quality and meet the demand of higher image quality in commercial printers.
VCSEL	The D135 series realizes a high image quality of 1200x4800dpi at a low price compared to D074 by the advanced 40 channel VCSEL
PPG Drive	The D135 series has new OPC drive technology called PPG-Drive. The combination of PPG-Drive and highly precise drive control can keep OPC rotation stable
CVEC	CVEC is a technology to keep ITB speed variation stable and reduce color inconsistency. The decentering of the driven shaft can be adjusted by monitoring the differences in outputs from the drive shaft encoder and the driven shaft encoder in the ITB unit.
Easy Jam Fix	The front cover of the D135 series is like a drawer and operators can directly access the inner unit. LED lights and jam animations appear when the user opens the drawer to fix paper jam

D137/D138 Pro to D135/D136 Office differences:

Category	Unit	D137/D138 (Pro)	D135/D136 (Office)
Structure	ADF	Non-contact transport	Contact transport
	Operation panel	9-inch separated panel	9-inch panel
	Status Light Pole	Standard	No
Development	PTR	DC and AC Transfer	DC Transfer
	Toner	Color:930g Black:930g	Color:570g Black:910g
Fusing Unit	Fusing	Solid hot roller and belt	Sponge hot roller and belt
	Fusing Cleaning	Fusing belt cleaning web Fusing belt smoothing roller	No
Paper feed Unit	Registration	Double-feed detection	Non double-feed detection
	Bypass	250 sheets	100 sheets

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Main Frame

Item	Model Name	EDP Code	Notes
D135	Lanier Ricoh Savin	416623	None
D136	Lanier Ricoh Savin	416627	None

NOTE: Order Numbers are provided for reference purposes only. Please use your Pricing Guide for proper order numbers to insure you receive the correct branding emblem.

Order Numbers

Options

Item	Description	EDP Code	Product Code	Common / Unique	
SR4090	3000 sheet finisher	416644	D703	U	
SR4100	Booklet Finisher	416645	D704	U	
Jogger Unit M2	Jogger Unit	416631	D705	U	SR4090/4100
PU3060	Punch Unit	416612	D706	U	SR4090/4100
SR4110	3000 Sheet finisher	416632	D707	U	
CS4010	Mailbox Unit	416633	D708	U	SR4090/4100
Copy Tray M2	Copy Exit Tray	416634	D744	U	
RT4020	A4/LT LCIT	416699	D709	U	
Legal Tray Type M2	8.5 x 14 Tray Kit	416637	D745	U	
A3/11"x17" Tray Unit Type M2	11 x 17 Tray	416641	D749	U	Replaces Tandem tray
RT4030	A3/DLT LCIT	416638	D710	U	
CI4010	Cover Interposer Tray	416639	D711	U	SR4090/4100

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Item	Description	EDP Code	Product Code	Common / Unique	
CI4020	2 Tray Cover Interposer	416640	D712	U	SR4110
Tab Sheet Holder Type M2	Tab Sheet Holder	416642	D750	U	
Brand Plaque for Savin Type M2	Brand Plaque	416672	N/A	U	
Brand Plaque for Lanier Type M2	Brand Plaque	416670	N/A	U	
Smart Card Reader type M2	Built in Smart Card Reader	416729	D739	U	
Fax Option Type M2	Fax Unit	416651	D718	U	
G3 Unit Type M2	G3 Interface Unit	416655	D718	U	Fax Option
Postscript Unit Type M2	Postscript 3 Unit	416657	D719-10	U	GW only
IPDS Type M2	IPDS option	416660	D719-15	U	GW only
Fax Connect Type M2	Fax Connection Unit	416663	D719-21	U	Fax Option
OCR unit Type M2	OCR Unit	416605	D166	U	
IEEE 802.11 Interface M2	IEEE 802.11 Interface Unit	416572	D164	U	GW only
A3/DLT Tray M2	A3/11 x 17 Tray Unit	416641	D749	U	
Netware SD Card Type M2	SD card for Netware Printing	416669	D719-46	U	GW only
Browser Unit Type M2	Browser Unit	416666	D719-41	U	
Color Controller E22B	Fiery Controller	404501	D729	U	
EFI SeeQuence Impose	Fiery option	404598	D728	U	
Fiery Compose FS-100	Fiery option	404582	D52515	U	
EFI Hot Folders	Fiery option	404600	D72912	U	

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Item	Description	EDP Code	Product Code	Common / Unique	
Spot-On	Fiery option	404601	D72914	U	
Auto Trapping	Fiery option	404602	D72910	U	
Fiery Color Profiler Suite V4.0	Fiery option	404520	D52510	U	
Fiery CPS V4.0 Software only	Fiery option	007096MIU	N/A	U	
Fiery ES-2000 Spectrophotometer	Fiery option	404523	D52513	U	
EFI Productivity Pack	Fiery option	404604	D72908	U	
Brand Plaque Savin M2	Branding Plaque Savin	416672	D135-33	U	
Brand Plaque for Lanier M2	Branding Plaque Lanier	416670	D135-31	U	
PU5000	Punch Unit	412983	B831	C	SR4110
FD4000	Multi Fold Unit	404183	D615	C	
Counter Interface Type A	External Key Counter Interface Kit	413012	B879	C	
Cooling Fan Unit Type M2	Fan for the SR4090/SR4100	417005	D770	U	
Fax Memory Unit Type B	32MB Fax Memory	001342MIU	G578	C	Fax Option
Copy Data Security Unit Type G	Copy Data Security Unit	416391	D640	C	
File Format Converter Type E	File Format Converter	414007	D377	C	GW Only
IEEE1284 Interface Board Type A	IEEE1284 Interface Board	411699	B679	C	GW Only
Unicode Font Package for SAP	SAP License x 1	413009	N/A	C	
Unicode Font Package for SAP	SAP License x 10	413010	N/A	C	

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Item	Description	EDP Code	Product Code	Common / Unique	
Unicode Font Package for SAP	SAP License x 100	413011	N/A	C	
GBC Streampunch Pro	GBC Punch Unit	404412	VR41	C	SR4110
GBC Die set 3 Hole(RB)	GBC Die Set	001450MIU	N/A	C	
GBC Die set Pro 3 hole	GBC Die Set	404415	N/A	C	
GBC Die Set 11 Hole (Velobind)	GBC Die Set	001451MIU	N/A	C	
GBC Die Set 19 Hole (Cerlox)	GBC Die Set	001452MIU	N/A	C	
GBC Pro 19 Hole HD Die Set	GBC Die Set	404416	N/A	C	
GBC Die Set 21 Hole (Twin Loop Wire 2:1)	GBC Die Set	001453MIU	N/A	C	
GBC Die Set 32 Hole (Twin Loop Wire 3:1)	GBC Die Set	001454MIU	N/A	C	
GBC Die Set 44 Hole (Color Coil)	GBC Die Set	001455MIU	N/A	C	
GBC Pro 44 Hole HD Die Set	GBC Die Set	404417	N/A	C	
GBC 32 Hole Pro Click Die Set	GBC Die Set	002493MIU	N/A	C	
BK5010e	Production Booklet Maker	404305	N/A	C	SR4110
CF5010	Cover Feeder	413102	N/A	C	
TR5010e	Trimmer	404299	N/A	C	
BF5010e	Booklet Folder (Requires Trimmer	404300	N/A	C	
BK5010	Rail Unit	413105	N/A	C	

Supplies/Yields

Item	Name	Order Code	Target Yield P/J_5%
Ricoh / Lanier/Savin			
Toner Black	Print Cartridge Black MP C8002	841780	48,500.prints/bottle
Toner Yellow	Print Cartridge Yellow MP C8002	841781	29,000.prints/bottle
Toner Magenta	Print Cartridge Magenta MP C8002	841782	29,000.prints/bottle
Toner Cyan	Print Cartridge Cyan MP C8002	841783	29,000.prints/bottle
Staple Set Cartridge	SR4090 – Staple Type V	416709	5000 Staples
Staple Refill Cartridge	SR4090 – Staple Type V	416711	5000 Staples x 3
Staple Set Cartridge	SR4100 – Staple Type W (Saddle Stitch)	416710	2000 Staples
Staple Refill Cartridge	SR4100 – Staple Type W (Saddle Stitch)	416712	2000 Staples x 4
Ricoh / Lanier			
Staple Set Cartridge	SR4110 - Staple Type M	413013	5000 Staples
Staple Refill Cartridge	SR4110 – Staple Type M	413026	5000 Staples x 5
Savin			
Staple Set Cartridge	SR4110 - Staple Type M	413016	5000 Staples
Staple Refill Cartridge	SR4110 – Staple Type M	413029	5000 Staples x 5
General			
Waste Toner Bottle	Waste Toner Bottle MP C8002	416889	Waste toner bottle is launched as supply for user's maintenance as well as service parts for CE maintenance. Default setting is User maintenance. Change to CE maintenance can be by SP-mode.
	SP-mode	Service Parts	Waste toner bottle is launched as supply for user's maintenance as well as service parts for CE maintenance. Default setting is User maintenance. Change to CE maintenance can be by SP-mode.

Supply Yield Condition:

ISO/IEC19752 & 3 page per job at 5% coverage is used to measure the above cartridge yields.
The condition is standard temperature and humidity.
This yield number may change depending on the circumstances and printing conditions.
Storage period for toner is 18 months.
Starter ink cartridge yield is ~400 prints, used primarily to initialize ink at installation

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Option Compatibility

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1. M2 – LG Tray Kit		X														
2.RT4030 - SRA3 LCIT	X		X													
3. RT4020 - A4/LT LCIT		X														
4. M2 - Copy tray					X	X	X	X	X	X	X	X	X	X	X	X
5.SR4090 - 3000 sheet finisher				X		X	X		X	M	X	M		M	M	X
6.SR4100 - Booklet Finisher				X	X				X	M	X	M		M	M	X
7.SR4110 - 3000 sheet Finisher 100 sheet staple				X	X			X	M		M	M		X		M
8. CS4010 - 9 bin Mail Box				X			X									
9. CI4020 - 2 Tray Cover Interposer				X	X	X	M									
10. CI4010 - Cover Interposer				X	M	M										
11.GBC Pro				X	X	X	M									
12.FD4000 MF				X	M	M	M									
13 Plockmatic BK5010e				X												
14.M2 Jogger Unit				X	M	M	X									
15. PU3060 Punch unit				X	M	M										
16.PU5000 Punch Unit				X	X	X	M									

X: Cannot be installed together **M**: Must be installed together in RAC Market

MFP Option Compatability

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1. Type M2 - Fax Option		M	M	M											
2. Type M2 - G3 Interface	M														
3. Type B - SAF Memory	M														
4. Type M2 - Fax Connection Unit	M														
5. Type M2 - Postscript 3							X								
6. Type M2 - IPDS							X								
7. E22B - Fiery Embedded Controller					X	X		X		X	X				
8. Type M2 - IEEE802.11a/b/g/i/w/n							X				X	X			
9. N/A															
10. Type M2 - Netware							X								
11. Type A - IEEE 1284							X	X				X			
12. Type E - File Format Converter								X			X				
13 Type M2 – OCR Unit															
14. Type M2 - Smart Card Reader															
15.Type M2 – Browser Unit															

X: Cannot be installed together **M**: Must be installed together in RAC Market

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Serial Number Information

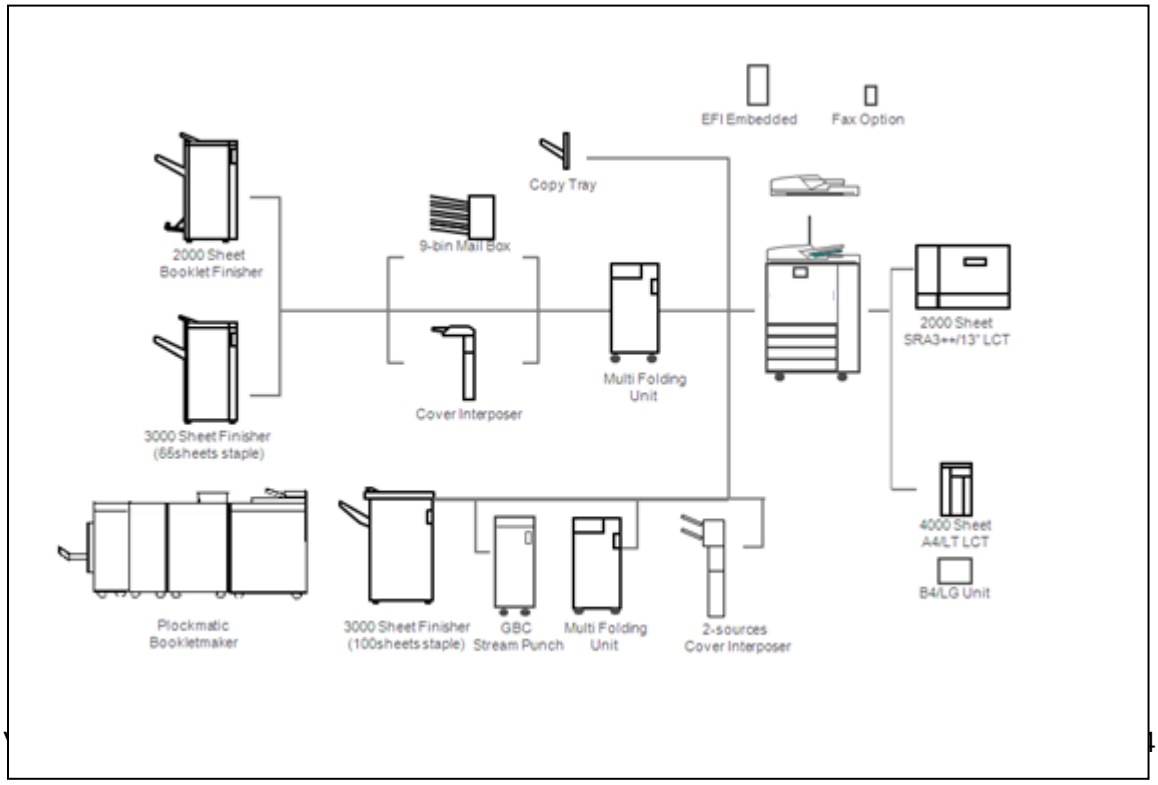
Product Name	Product Name	Serial Number
Ricoh: MP C6502SP	D135-17	E23yfmxxxxx
Savin: MP C6502SP		
Lanier: MP C6502SP		
Ricoh: MP C8002SP	D136-17	E24yfmxxxxx
Savin: MP C8002SP		
Lanier: MP C8002SP		

Branding Information

Branding is required as the machines are shipped as a generic version.
Ricoh version machines: You must attach the model label (provided) to the front cover.
Savin/Lanier: You must attach the model label (provided) to the front cover and set the Plug and Play name with SP 5-907.

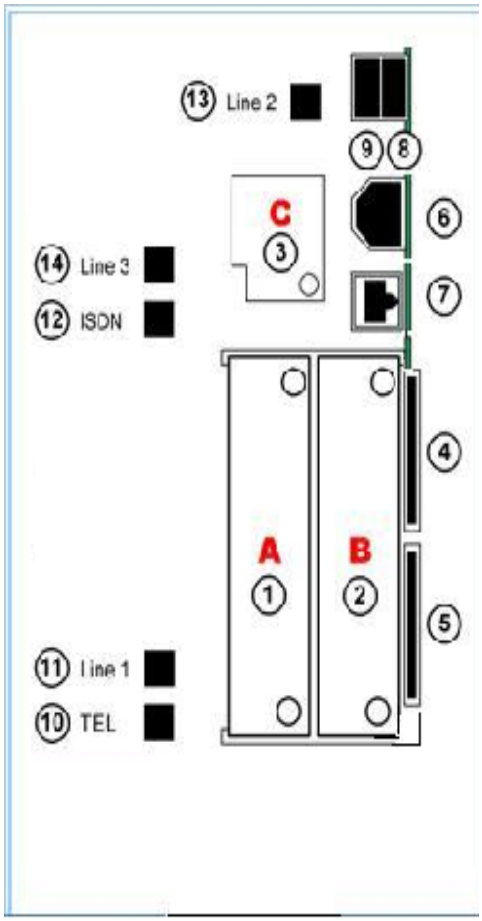
Configuration

Main Frame Configuration



MFP Options

MFP Option Board Slot / SD Card Assignments



No.	Name	Description
①	Slot A	
②	Slot B	▪ IEEE1284 (B679) ▪ File Format Converter ▪ IEEE802.11a/g (D164) ▪
③	Slot C	• Gigabit Ethernet
④	Upper Slot (Slot 1)	• Remote Fax Option • Netware (D719-) • Postscript(D719) • IPDS(D719-) ▪ Browser Unit (D719-) ▪ OCR
⑤	Lower Slot (Slot 2)	• Service Slot
⑥	USB 2.0	• Built-in for connection of USB devices.
⑦	100BaseT LAN	• Standard LAN connection point.
⑧	USB A	• N/A
⑨	USB B	
⑩	TEL	Jack for telephone connection
⑪	Line 1	Jack for main telephone line from the outside for connection to Fax Option
⑫	ISDN	Jack for ISDN connection **Japan Only**
⑬	Line 2	Jack for a 2nd line connection to G3 Interface When this option is installed.
⑭	Line 3	Jack for a 3rd line connection to G3 Interface When this option is installed.

Board Slots

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Installation
Installation Requirements

Temperature Range:	10° C to 32° C (50° F to 89.6° F)
Humidity Range:	15% to 80% RH
Ambient Illumination:	Less than 1,500 lux (do not expose to direct sunlight)
Ventilation:	3 times/hr/person
Ambient Dust:	Less than 0.10 mg/m^3
Avoid areas exposed to sudden temperature changes:	
	• Areas directly exposed to cool air from an air conditioner.
	• Areas directly exposed to heat from a heater.
Do not place machine where it will be exposed to corrosive gas or vapor.	
Do not install the machine at any location over 2,000m (6,500 ft.) above sea level.	
Place the machine on a strong and level base. Inclination on any side should be no more than 5mm (0.2")	
Do not place the machine where it may be subject to strong vibrations.	
Machine level	• Front to back: within 5mm (0.2") of level
	• Right to left: within 5mm (0.2") of level

Power Requirements

Line voltage level:

D135: 120V 60 Hz 20A

D136: 208 to 240V 60 Hz 12A

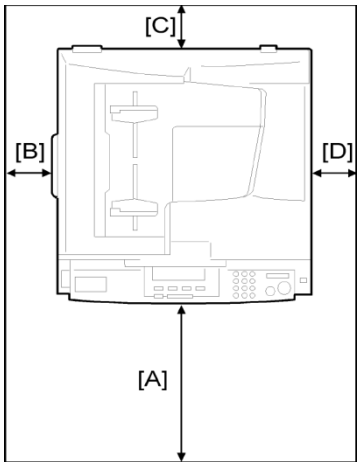
Permissible voltage fluctuation: +/-10%

Never set anything on the power cord.

D135 (MP C6502) Only

D136 (MP C8002) Only

Space



A (Front)	28”
B (Left)	4”
C (Rear)	4”
D (Right)	35.5”

The recommended 40 cm (15.7in) front space is sufficient to allow the paper tray to be pulled out. Additional the front space is required to allow operators to stand at the front of the machine.

Machine Level

Front to back – Within 5 mm (0.2” of level
Right to left– Within 5 mm (0.2” of level

Foot Print

Dimensions (W x D x H): 29.5” x 34.6” x 48.4” (750mm x 880mm x 1,230mm)

NOTE: Measurement Conditions: With bypass feed table closed, optional PTU and without ARDF, from the ground to the contact glass.

Installation Requirements

Temperature Range: 10°C to 32°C (50°F to 90°F)
Humidity Range: 15% to 80% RH
Ambient Illumination: Less than 1,500 lux (do not expose to direct sunlight.)
Ventilation: Room air should turn over at least 30 m3/hr/person
Ambient Dust: Less than 0.10 mg/m3 (2.7 x 10/6 oz/yd3)
1. Avoid areas exposed to sudden temperature changes:
1) Areas directly exposed to cool air from an air conditioner.
2) Areas directly exposed to heat from a heater.
2. Do not place the machine where it will be exposed to corrosive gases.
3. Do not install the machine at any location over 2,000 m (6,500 ft.) above sea level.
4. Place the main machine on a strong and level base. Inclination on any side should be no more than 5 mm (0.2").
5. Do not place the machine where it may be subjected to strong vibrations.

Power Consumption / Noise Emission

Power Consumption

Mode	Model	Wattage	BTU/hr
Full Option Max Power	D135	1920	6551.3
	D136	2400	8189.1
Operating Power	D135	1443	4923.7
	D136	1425.8	4865
Low Power	D135	190.5	650
	D136	198.8	678.3
Sleep Mode	D135	0.59	2.01
	D136	0.68	2.32

TEC (Typical Electricity Consumption)	
Model	**Wh**
D135	5088
D136	6373

Noise Emission

Mainframe			
Sound Power Level	**Db**	**Sound Power Level**	**Db**
Stand-by D135	52.5	Copying D135	72
Stand-by D136	57	Copying D136	73
Full System			
Sound Power Level	**Db**	**Sound Power Level**	**Db**
Stand-by D135	52.5	Copying D135	76
Stand-by D136	57	Copying D136	76
Mainframe			
Sound Pressure Level	**Db**	**Sound Pressure Level**	**Db**
Stand-by D135	46.5	Copying D135	66
Stand-by D136	51	Copying D136	66
Full System			
Sound Pressure Level	**Db**	**Sound Pressure Level**	**Db**
Stand-by D135	46.5	Copying D135	70
Stand-by D136	51	Copying D136	70

NOTE: The above measurements were made in accordance with ISO 7779. The measurements were taken from the normal position of the operator.

Installation Times

Unit	Installation Time (Minutes)	Unit	Installation Time (Minutes)
Finisher SR4090 / Booklet Finisher SR4100	25	Fax Option Type M2	15
Output Jogger Unit Type M2	10	G3 Interface Unit Type M2	15
Punch Unit for SR4090/SR4100	20	Memory Unit Type B 32MB	5
Finisher SR4110	25	PostScript3 Unit Type M2	5
Punch Unit for SR4100	20	IPDS Unit Type M2	5
Mail Box CS4010	20	Fax Connection Unit Type M2	20
Copy Tray Type M2	20	OCR Unit Type M2	5
LCIT RT4020	20	SD card for NetWare printing Type M2	5
8 1/2" x 14" PAPER SIZE TRAY Type M2	25	SD Card for Fonts Type D	5
LCIT RT4030	25	Data Overwrite Security Unit Type H	5
Cover Interposer Tray CI4010	20	Copy Data Security Unit Type G	5
Cover Interposer Tray CI4020	25	File Format Converter Type E	5
A3/11"x17" Tray Unit Type M2	6	IEEE 1284 Interface Board Type A	5
Tab Sheet Holder Type M2	1	IEEE 802.11a/g/n Interface Unit Type M2	5
Multi-Folding Unit FD4000	25	Browser Unit Type M2	5
Optional Counter Interface Unit Type A	4	Color Controller E-22B	40
Card Reader Bracket Type1075	4	Smart Card Reader Built-in Unit Type M2	10
Key Counter Bracket Type1027	3		

Parts / Special Tools / Maintenance

PM Parts / Yields

Mainframe

PM Kit Part Numbers - PMD136300K PMD136600K

Unique/Common
U: Unique for this model
C: Common with listed model

Part Number	Description	Q'ty/ Unit	PM Interval	Unique or Common
Photo Conductor Development Unit				
D1363431	FILTER:DEVELOPMENT	4	600k	U
D1362365	CLEANING BLADE:ASS'Y	4	300k	U
D1362401	DRUM LUBRICANT SUPPLY ROLLER ASS'Y	4	300k	U
D1362408	GEAR:24Z:RIGHT	4	300k	U
D1362411	COATING BAR ASS'Y	4	300k	U
D1362441	BLADE:APPLY:ASS'Y	4	300k	U
D1362461	GEAR:18Z:RIGHT	8	300k	U
D1362462	GEAR:IDLER:19Z:LEFT	4	300k	U
D0742503	GEAR:IDLER:31Z:LEFT	4	300k	C
D1362470	CHARGE UNIT:ASS'Y	4	300k	U
D0742459	JOINT:CLEANING UNIT	4	300k	C
D1362368	SEAL:CLEANING BLADE:FRONT	4	300k	U
D1362369	SEAL:CLEANING BLADE:REAR	4	300k	U
D1362446	SEAL:BLADE:APPLY:FRONT	4	300k	U
D1362447	SEAL:BLADE:APPLY:REAR	4	300k	U
D0749510	OPC DRUM DIA60	4	900k	C
D1369640	DEVELOPER BLACK	1	600k	U
D1369660	DEVELOPER YELLOW	1	600k	U
D1369670	DEVELOPER MAGENTA	1	600k	U
D1369680	DEVELOPER CYAN	1	600k	U
Image Transfer Belt Unit				
D1366090	FLAT BELT-TRANSFER:ASS'Y	1	900k	U
D0746158	ROLLER:INTERMEDIATE TRANSFER:ASS'Y	4	1,200k	C
D1361208	GEAR:INTERMEDIATE TRANSFER:ASS'Y	1	1,200k	U
D1366186	ROLLER:OPPOSED: PAPER:ASS'Y	1	1,200k	U
Paper Transfer Roller Unit				
D1366250	TRANSFER ROLLER:ASS'Y	1	600k	U
D1366260	SEPARATION CORONA:ASS'Y	1	600k	U
ITB Cleaning Unit				
D0746424	BLADE:CLEANING:BELT CLEANING:ASS'Y	1	600k	C
D0746446	BRUSH:APPLY:BELT CLEANING	1	600k	C

Part Number	Description	Q'ty/ Unit	PM Interval	Unique or Common
D0746450	COATING BAR:ASS'Y	1	600k	C
D0746457	BLADE:APPLY:ASS'Y	1	600k	C
Fusing Unit				
AE030059	BALL BEARING:MM20XMM32X7	4	600k	C
AE020215	PRESSURE ROLLER:DIA50	1	600k	U
AE010112	HOT ROLLER:DIA52	1	600k	U
D1364181	FLAT BELT-FUSING:DIA75:SEAL	1	600k	U
Filters				
D1366953	DEODORIZE FILTER:LARGE	1	1,200k	U
D1366956	DEODORIZE FILTER:SMALL	1	1,200k	U
D1366935	FILTER:DEVELOPMENT:EXHAUST:LARGE	1	600k	U
D1366917	FILTER:DEVELOPMENT:EXHAUST:SMALL:ASS'Y	1	300k	U
D1366938	OZONE FILTER:SMALL	1	1,200k	U
Waste Toner Bottle				
D1363505	COLLECTION BOTTLE:ASS'Y	1	125k	C
ADF				
D5412121	PAPER FEED BELT	1	120k	C
D6832228	PICKUP ROLLER	1	120k	C
D5412241	REVERSE ROLLER:PAPER FEED	1	120k	C

Options

Cover Interposer Tray CI4010

Part Number	Description	Q'ty /Unit	PM Interval : Km (feet)	Unique or Common
A8061295	FEED BELT	1	60k	C
A8592241	REVERSE ROLLER	1	60k	C
B4772225	PICK-UP ROLLER	1	60k	C

Cover Interposer Tray CI4020

Part Number	Description	Q'ty /Unit	PM Interval : Km (feet)	Unique or Common
A8061295	FEED BELT	1	60k	C
A8592241	REVERSE ROLLER	1	60k	C
B4772225	PICK-UP ROLLER	1	60k	C

LCIT RT 4020

Part Number	Description	Q'ty /Unit	PM Interval : Km (feet)	Unique or Common
AF030080	PAPER FEED ROLLER:PICKUP	1	1,000k	C
AF031083	PAPER FEED ROLLER:FEED:MANUAL FEED	1	1,000k	C
AF032080	PAPER FEED ROLLER:SEPARATE	1	1,000k	C

LCIT RT4030

Part Number	Description	Q'ty /Unit	PM Interval : Km (feet)	Unique or Common
AF030071	PICK-UP ROLLER	1	300k	C
AF031071	PAPER FEED ROLLER:FEED	1	300k	C
AF032041	SEPARATION ROLLER - BYPASS FEED	1	300k	C

Special Tools & Lubricants

Item	Part Number	Description	Q'ty	Unique or Common
1	D0159501	ZINC STEARATE	1	C
2	D0159500	G104 YELLOW TONER	1	C
3	VSSG9002	FLUOTRIBO MG GREASE : 100G	1	C
4	B6455020	SD Card	1	C
5	B6456705	PCMCIA Card Adapter	1	C
6	G0219350	Loop-back Connector – Parallel	1	C
7	C4019503	20X Magnification Scope	1	C
8	A0929503	C4 Color Test Chart (3 pcs/set)	1	C
9	A2579300	Grease Barrierta – S552R	1	C
10	A1849501	OPTICS ADJUSTMENT TOOL	2	C
11	B6795100	Plug - IEEE1284 Type C	1	C
12	D0747690	BRUSH:BLOWER	1	C
13	A2579300	GREASE-BARRIERTA S552R	1	C
14	D0149800	GREASE-KS660B	1	C
15	VSSA9001	LAUNA OIL 40N	1	C
16	D1363499	Funnel	1	U
17	D1362495	PCDU stand	1	U
18	D1362150	Laser Glass Cleaner	1	U

Target Reliability

Model	D135 / D136
Average Monthly Volume	**D135**: 20k **D136:** 30k
Max. Monthly Volume	150K
PM Interval	300k

Specifications / Documentation

Mainframe		Remarks
Configuration	Console	
Scanning Element	Flatbed with moving 3-line CCD array Image-scanning	
Printing Process	4-Drum Dry Electrostatic Transfer System with internal transfer belt	
Development	Dry two-component magnetic brush development system	
Fusing	Fusing belt type	
Max Image Area	323 x 480mm / 12.71" x 18.90in.	Max feedable paper size: 13" x 19.2"
Warm-up Time (From main switch)	60 sec. From main power on. At 20 degrees C, 68 degrees F.	
CPU	1.86 ghz	Intel® Celeron® Processor P4505
RAM	2.5 GB	
HDD	250 x 2 GB	250GB x 2 on board, 187.5GB each available
Power Source	D135: 120-127V/16A, 60Hz / D136: 208-240V/12A, 60Hz	
Max Power Consumption	D135: 1,920W or less / D136: 2,400W or less	Full Configuration
Dimension	750 x 880 x 1,230mm / 29.5" x 34.6" x 48.4"in	Height includes ADF
Weight	Less than 241kg / Less than 531	Weight includes ADF
Auto Off Timer	Yes, 1 – 240 min.	Default 1 hour
Energy Saver Timer	Yes, 1 – 240 min.	Default 15 minutes
Panel Off Timer	No	Not Available
System Reset Timer	Yes, 10 – 999 sec. – Default - Copy/Document Server/Printer/Scanner: 1min / Fax: 30sec	
CPM Black / Color	D135 : 65, D136 : 80	
Copy Resolution	600dpi / 4bit	
Multiple Copying	Up to 9999 copies	

Mainframe		Remarks
Reproduction Ratio	<table><tr><td></td><td>NA</td><td>EU/AP/CHN</td></tr><tr><td rowspan="7">Reduce</td><td>93%</td><td>93%</td></tr><tr><td>85%</td><td>87%</td></tr><tr><td>78%</td><td>82%</td></tr><tr><td>73%</td><td>71%</td></tr><tr><td>65%</td><td>61%</td></tr><tr><td>50%</td><td>50%</td></tr><tr><td>25%</td><td>25%</td></tr><tr><td rowspan="5">Enlarge</td><td>121%</td><td>115%</td></tr><tr><td>129%</td><td>122%</td></tr><tr><td>155%</td><td>141%</td></tr><tr><td>200%</td><td>200%</td></tr><tr><td>400%</td><td>400%</td></tr></table>	
Zoom	From 25% to 400% in 1% step	
Number of Copy Jobs	8	
Image Density	Auto, Manual	
Color Mode	Default = Black & White Mode Auto Color Selection (ACS) Full Color Black & White Single Color (Default: not indicated) Preset: 12 colors x4 Density (Default = Red), User color: 15 colors x4 Density Two Color (Default: not indicated) - Black and Other Color - Red and Black	
Copy Mode	Default = Auto Text & Photo Separation (Printed/Glossy/Copied) Auto Text & Photo Separation (Printed/Glossy/Copied) Photo (Printed/Glossy/Copied) Text Map Pale Generation Highlight Pen Inkjet	
Paper Selection	Tray 1 [Paper Type] Plain Paper (Not Displayed as Paper Type), Recycle Paper, Color Paper, Special Paper 1-3, Letterhead, Preprinted Paper, Prepunched Paper, Bond Paper, Cardstock [Thickness] Thin Paper, Plain Paper 1, Plain Paper 2, Middle Thick, Thick Paper 1, Thick Paper 2, Thick Paper 3, Thick Paper 4	
Auto Tray Switch	Trays 2/3 [Paper Type] Plain Paper (Not Displayed as Paper Type), Recycle Paper, Color Paper, Special Paper 1-3, Letterhead, Preprinted Paper, Prepunched Paper, Bond Paper, Cardstock, Tabstock*, Envelope [Thickness] Thin Paper, Plain Paper 1, Plain Paper 2, Middle	*Option needed to print/copy tabstock.

Mainframe		Remarks
	Thick, Thick Paper 1, Thick Paper 2, Thick Paper 3, Thick Paper 4 *For Tabstock & Envelope: Middle Thick, Thick Paper 1, Thick Paper 2, Thick Paper 3, Thick Paper 4	
	Bypass tray [Paper Type] Plain Paper (Not Displayed as Paper Type), Recycle Paper, Color Paper, Special Paper 1-3, Letterhead, Preprinted Paper, Prepunched Paper, Bond Paper, Cardstock, Tabstock, Envelope, OHP, Label [Thickness] Thin Paper, Plain Paper 1, Plain Paper 2, Middle Thick, Thick Paper 1, Thick Paper 2, Thick Paper 3, Thick Paper 4 *For Tabstock & Envelope: Middle Thick, Thick Paper 1, Thick Paper 2, Thick Paper 3, Thick Paper 4	
	Yes	
Duplex	1 sided to 2 sided, 2sided to 2 sided(w/ARDF), Book to 2 sided, Front and Back to 2 sided	
Book	Booklet, Magazine, and Layout & Booklet modes	
Series	Book to simplex, 2 sided original to simplex	
Combine	2 into 1 simplex, 4 into 1 simplex, 8 into 1 simplex	
Image Rotation	1 duplex into 1 simplex, 2 duplex into 1 simplex, 4 duplex into 1 simplex	
	4 into 1 duplex, 8 into 1 duplex, 16 into 1 duplex	
	2 duplex into 1 duplex, 4 duplex into 1 duplex, 8 duplex into 1 duplex	
	Yes	
Electronic Sort	Without Shift Sort - Yes (only without Finisher)	
Stapling	Rotate Sort - Yes	
	Shift Sort - Yes (only with Finisher)	
	Yes (with Finisher)	
Color Creation	Color Conversion - Up to 4 colors. Selectable from: Preset: 12 colors, Black, User color: 15 colors	
	Color Erase	
	Color Overlay - former "Color Background"	
Image Creation	Repeat, Double Copy, Mirror, Positive/Negative, Erase Inside, Erase Outside	
Stamp/Numbering	Preset Stamp, User Stamp, Date Stamp, Page Number, Bates Numbering(Stamp Text), Printing copy prevention pattern	
ACC	Yes	
Background Density Adjustment	Yes	
Under Color Removal (UCR) Adjustment	Yes	
Text & Photo Separation Sensitivity Adjustment	Yes	
Job Programs	25	
Job Preset	8	
User Codes	8 digits / 1000 user codes	

Paper Handling		Remarks
Paper Feeding Capacity (LT/A4)	Standard - Total: 3,700 Tray: 1,250 x 2 (tandem) + 550 x 2	Sheets

Paper Handling		Remarks
	Bypass Tray: 100	
	Maximum – 8,100 (with A4/LT LCT)	Sheets
	Option - A4/LT LCT: 4,400 / A3/DLT LCT: 2,200	Sheets
Paper Output Capacity (LT/A4)	Standard – TBD (Copy Tray Option)	
	Maximum - 3,500sheets (3,000sheets on proof tray + 500sheets on shift tray)	
	Option - 3000 sheets finisher with 65 staple 3,000sheets(A4 LEF,LT LEF) 1,500sheets(A3 SEF,A4 SEF,B4 SEF,B5, DLT,LG,LT SEF, 13 x 19.2" SEF,SRA3 SEF, 12 x 18"SEF) 500sheets(A5 LEF) 100sheets(A5 SEF,B6 SEF,HLT SEF,A6 SEF) 2000 sheets finisher with saddle stitch staple 2,000sheets(A4 LEF,LT LEF) 1,000sheets(A3 SEF,A4 SEF,B4 SEF,B5, DLT,LG,LT SEF, 13 x 19.2" SEF, SRA3 SEF,12 x 18"SEF) 500sheets(A5 LEF) 100sheets(A5 SEF,B6 SEF,HLT SEF,A6 SEF) 3000 sheets finisher with 100 staple 3,000sheets(A4 LEF,B5 LEF,LT LEF) 1,500sheets(A3 SEF,A4 SEF,B4 SEF,B5 SEF, DLT,LG,LT SEF) 1,000sheets(,13 x 19.2" SEF,12 x 18"SEF) 500sheets(A5 LEF,HLT LEF) 100sheets(A5 SEF,HLT SEF) 9-Bins Mail Box 100 sheets x 9bins	When printing in banner mode changing SP, you cannot use any finishing such as staple/punch/fold, etc. Double sided and finishing can be done from bypass.
Paper Weight	Standard tray - 52.3 – 256 g/m2	
	A4/LT LCIT - 52.3 – 216 – g/m2	
	A3/DLT LCIT - 52.3 – 300 – g/m2	
	Bypass - 52.3 – 300 – g/m2	
	Duplex - 52.3 – 256 – g/m2	

Printer Specifications		Remarks
PDL	Standard - PCL5c / PCL6(XL), PDF	
	Option - Adobe PostScript3, IPDS	
Print Resolution	Max - 1200 x 4800 dpi	
	PCL5c - -300 (1bit, Only B/W mode) -600 (1, 2, 4bit) <Gradation *> Fast (1bit) / Standard (2bit) / Fine (4bit)	*With the combination of 'Resolution' and 'Gradation' or 'Printing Mode' settings in printer drivers, the variation of print resolutions are as listed.
	PCL6 -600 (1, 2, 4bit) -1200 (1, 2bit)	The resolution selectable from printer driver and the result is as follows: - 600 x 600dpi (600dpi 1bit) - 2400 x 600dpi (600dpi 2 bit) - 9600 x 600dpi (600dpi 4bit) - 1200 x 1200dpi (1200dpi 1bit) - 4800 x 1200dpi (1200dpi 2bit)
	PS3 -600 (1, 2, 4bit) -1200 (1, 2bit)	
	XPS -600 (1, 2, 4bit) <Printing Mode *> Standard	*With the combination of

Printer Specifications		Remarks
	(1bit) / Quality Preference (2bit) / High Quality (4bit) - 1200 (1bit) <Printing Mode *> Standard (1bit)	'Resolution' or 'Printing Mode' settings in printer drivers, the variation of print resolutions are as listed. **We highly recommend applying ServicePack1 to Windows Vista before using XPS driver.
	IPDS -300 (1bit) -600 (1bit)	Only for B&W printing.
Fonts	Standard - PCL: Scalable 45 fonts + International 13 fonts* PDF: 136 Roman fonts	Cyrillic (Russian), Greek, Hebrew and Arabic are included in International Fonts.
	Option – IPDS : 108 Roman fonts	
Host Interfaces	Standard - Ethernet (1000Base-T*/100Base-X/10Base-T), USB2.0 Type A (2 port on back of machine, 1 port on operation panel), USB2.0 Type B, SD slot on operation panel	*Ethernet 1000Base-T in on boarded but needs to be selected by user
	Option - IEEE1284/ECP Wireless LAN (IEEE802.11a/b/g/n) Bluetooth	Bluetooth can not be used on USB port on operation panel. Wireless LAN and Bluetooth option can not be used at the same time.
Network Protocol	TCP/IP (IP v4, IP v6), IPX/SPX*	*NetWare Option needed
Standard MIB	MIB-II(RFC1213),HostResource(RFC1514), PrinterMib(RFC1759), Printer Port Monitor MIB	
Network/Operating System	Windows XP/Vista/7/Server 2003/Server 2008/Server 2008R2 Netware 6.5* Unix; Sun Solaris, HP-UX, SCO OpenServer, RedHat Linux, IBM AIX Mac OS X v.10.2 or later SAP R/3, NDPS Gateway IBM iSeries/ AS/400-using OS/400 Host Print Transform	*Netware Option is required.

Scanner Specifications		
Color Scan	Standard	
Scanning Speed (single pass duplex DF)	B&W - 100(simplex)/200(duplex) (A4/LET LEF / 200dpi/300dpi-1bit)	
	Color - 100(simplex)/200(duplex) (A4/LET LEF / 200dpi-4bit / 300dpi-4bit)	
Scanning resolution	Standard - 100 / 150 / 200 / 300 / 400 / 600	200 dpi = Default
Auto Size Detection	Platen Glass - 11"x17"(DLT) SEF, 8 ½"x14"(LG) SEF, 8 ½"x11"(LT) LEF/SEF, 8 1/2"×5 1/2"(HLT) LEF, *SP mode adjustment is required : 8 1/2"×5 1/2"(HLT)SEF	
	ARDF - 11"x17" (DLT)SEF, 8 ½"x14" (LG)SEF, 8 ½"x11"(LT) LEF/SEF, 5 ½"x8 ½"(HLT) LEF/SEF, 8 1/2"×13"(Foolscap) SEF 10"x14"SEF,11"x15"SEF (detected the same as DLT SEF, Default = DLT SEF),8"x10"SEF (detected the same as LT SEF,Default = LT SEF),7 1/4"x10½"(EXE) LEF/SEF	*Some of the supported paper sizes can be activated by SP mode.
Scan Area	Main Scan - 297mm / Sub Scan - 432mm	
sRGB Support	Standard	
Network Interface	Ethernet(1000Base-T*/100Base-TX/10Base-T), Wireless LAN (IEEE802.11a/b/g/n), USB2.0 Type A, SD card slot*	*Ethernet 1000Base-T in on boarded but needs to be selected by user. *Scan to

Scanner Specifications		
		USB/SD Card is available.
Protocol	Network: TCP/IP Sending E-mail: SMTP, POP, IMAP4 Scan to Folder: SMB, FTP, NCP* Web Services on Devices for Scanning	*Optional
Compression Method	B & W - 1bit(MH, MR, MMR, JBIG2*), Grayscale(JPEG)	**PDF format only
	Color - JPEG	
Scan Mode	Network: TCP/IP Sending E-mail: SMTP, POP, IMAP4 Scan to Folder: SMB, FTP, NCP* Web Services on Devices for Scanning	
Image Density	Auto Density Selection(Effective in BW/Grayscale and FC scan mode) Manual: 7 levels (Effective in BW/Grayscale and FC scan mode)	
Image Rotation, SADF/Batch Mode, Mixed Size Mode, Reduce and Enlarge, Split scan from Booklet type original, Digital Signature for PDF are all standard.		
File Format	Data / Compression Method	Compression On / Off
Single Page TIFF	BW 1bit / (MH, MR or MMR)	On
	BW 1bit, BW Grayscale or FullColor	Off
Multi Page TIFF	BW 1bit /(MH, MR or MMR)	On
	BW 1bit, BW Grayscale or FullColor	Off
Single Page JPEG	BW Grayscale or FullColor / (JPEG)	On
	N/A	Off
Single Page PDF	BW 1bit / (MH, MR, MMR or JBIG2), BW Grayscale / (JPEG), FullColor / (JPEG)	On
	BW 1bit, BW Grayscale or FullColor	Off
Multi PagePDF	BW 1bit / (MH, MR, MMR or JBIG2), BW Grayscale / (JPEG), FullColor / (JPEG)	On
	BW 1bit, BW Grayscale or FullColor	Off
Single Page High Compression PDF	BW Grayscale / (JPEG or JPEG2000), FullColor / (JPEG or JPEG2000)	On
	N/A	Off
Multi Page High Compression PDF	BW Grayscale / (JPEG or JPEG2000), FullColor / (JPEG or JPEG2000)	On
	N/A	Off
Single Page PDF-A	BW 1bit / (MH, MR, MMR or JBIG2), BW Grayscale / (JPEG), FullColor / (JPEG)	On
	BW 1bit, BW Grayscale or FullColor	Off
Multi Page PDF-A	BW 1bit / (MH, MR, MMR or JBIG2), BW Grayscale / (JPEG), FullColor / (JPEG)	On
	BW 1bit, BW Grayscale or FullColor	Off

Scan to E-mail Specifications		
Requirement (Mail Protocol, Transmission Protocol, Protocol)	SMTP (Mail Server) Gateway and TCP/IP	
Authorization Function	SMTP authentication - POP before SMTP auth.	
Resolution	Std. 100/150/200/300/400/600 dpi - Default 200 dpi	
Max Email Address in HDD	2000	
Register Group Address in HDD	Max. 100 Group (Max. 500 addresses in one group address)	
Maintain Email Address in HDD	Direct input on operation panel, Web Image Monitor, Smart Device Monitor for Admin	
Input of Destination E-mail Address via Soft Key	Possible, Max. 100 destinations per job	
Search method of Email Address in HDD	By name and E-mail address	
LDAP Search	Yes	
Max Address Numbers Per Send	Max. 500 addresses per send *	*Address from HDD address book + Address input via soft key + Address looked up via LDAP = Max.500.
Address Numbers Per Send	From HDD - Max 500 *	*Address from HDD address book + Address input via soft key + Address looked up via LDAP = Max.500.
	Direct Input – Max 100*	*You can specify 100 destinations by direct entry, including LDAP search.
	Via LDAP – Max 100*	*You can specify 100 destinations by direct entry, including LDAP search.
	Simultaneous Transmission – Max 550	
Email Size	with Restriction - 128 - 102,400KB	
	w/o Restriction - 725MB	
Input Subject	Manual - Max 80 Characters, 5 lines	
	User Pre-register - Title name of the body message: Max. 20 characters per a name	
Input Main Body Text	Manual - Max 80 Characters, 5 lines	
	User Pre-register - Title name of the body message: Max. 20 characters per a name	
	Preset - Message: "This e-mail included attached file sent from xxxx(machine model name)."	
File Type	Single Page - TIFF/JPEG/PDF/PDF-A/High Compression PDF Multi Page - TIFF/PDF/PDF-A/High Compression PDF	
Program User Settings	Up to 25 programs	
Divide and send Email (If the file size exceed the max size.)	Yes (By page or size) / No, Default = Yes(By size) *	*If the sent file size exceeded the maximum E-mail size, it would be divided to multiple sending. In addition, the sent files might not be accepted by the receiving side due to the limitation in the receiving capacity at the receiver SMTP server or E-mail software setting.
Resend	Yes / No, Default = Yes	
Input File Name	Yes	
Attention	To, cc, bcc	

Scan to Folder Specifications		
Protocol Support	SMB, FTP, NCP*	*Optional
Security	Client folder log-in (log-in name and password), Encryption of log-in nameand password during transmission	
Resolution	Standard - 100/150/**200**/300/400/600	Default = 200
Register client folder address in HDD	Max. 2,000 folders	
Maintain client folder address in HDD	Direct input on operation panel, WebImageMonitor, SmartDeviceMonitor	
Direct addressing of destination client folder via soft key	Yes	
Search client folder	SMB: Browsing directly to the designated folders FTP: By client folder name NCP: Browsing*	*optional
Homefolder over LDAP	Yes	
Max. client folder numbers per send	Max. 50 client folders / PCs per send	
Simultaneous Transmission	Max.550	
Group address	Max. 500 destinations (Folder destination must be less than 50)e.g. 500 destinations (50 folders included) >OK 500 destinations (51 folders included) >Failure	
Input File Name	Yes	
Scan to File size	2000 MB	
File Size when combined Scan to Folder & Scan to E-mail	128 - 102,400kB, Default = 2,048KB (With restriction) 725MB (Without restriction) (Scan to E-mail file size applied).	
File Type	Single Page - TIFF/JPEG/PDF/PDF-A/High Compression PDF Multi Page - TIFF/PDF/PDF-A/High Compression PDF	
Program User Settings	Up to 25 programs	
Resend	Yes / No, Default = Yes	

Network Twain Driver Specifications		
OS	32bit/64bit: Windows XP, Vista, 7, Server2003/2008 64bit: Windows Server 2008R2 (Operates in 32-bit compatibility mode on 64-bit operating systems)	
Scanning Speed	B&W – To Be Measured Later	
	Color - To Be Measured Later	
Resolution	B&W - 100 – 1200dpi (Black and White / Grayscale)	*Selectable maximum scan resolution depends on the original size.
	Color - 100 – 1200dpi (Full Color)	*Selectable maximum scan resolution depends on the original size.
Scan Mode	Standard / Photo / OCR / Filing	
Image Adjustment	Brightness / Contrast / Threshold /Gamma Adjustment / Halftone Pattern	
Endorser	Supported	
Stamp	Date / Page Number / Text	

Fax Specifications		
Circuit	PSTN, PBX	
Compatibility	ITU-T (CCITT) G3	

Fax Specifications		
Resolution	Standard mode: 8 x 3.85 line/mm, 200 x 100dpi, Detail mode: 8 x 7.7 line/mm, 200 x 200dpi, Super Fine mode*: 8 x 15.4 line/mm, 16 x 15.4 line/mm, 400 x 400dpi	
Compression Method	MH, MR, MMR, JBIG	
Scanning Speed (Platen used)	To Be Measured Later	
Scan Page per Minute	Standard mode (200x100dpi): 75 - Detail mode (200x200dpi): 75 - Super Fine mode (400x400dpi): 75	
	Standard mode (200x100dpi): 94 - Detail mode (200x200dpi): 79 - Super Fine mode (400x400dpi): 38	
Modem Speed	33.6K – 2,400bps (G3, Standard with Automatic Shift Down) (33600, 31200, 28800, 26400, 24000, 21600, 19200, 16800, 14400, 12000, 9600, 7200, 4800, 2400 bps)	
Transmission Speed	G3: Approx.2 seconds (200x100 dpi, JBIG, ITUT #1 chart TTI off, memory transmission) G3: Approx.3 seconds (200x100dpi, MMR, ITUT #1 chart, TTI off, memory transmission)	
SAF Memory Size	4MB (Approx.320 pages) / 28MB (Approx. 2,240 pages)	
Memory Backup	1 Hour	
Smoothing	Yes, 1 bit	
TTI/RTI/CSI	Yes	
Quick dial/ Speed dial	Yes: 2,000 numbers	
Group Dial	Yes: 100 groups	
Program	Yes: 100 numbers	
Redial/Direct Fax Number Entry/Dual access	Yes	
User Code	Yes 1000 Codes	
Page Counter/Auto Reduction/Wild Cards for Special Senders/Summer Time/Memory Lock ID Code	Yes	
User Function Key	Yes (3 keys)	
Clock Adjustment	Yes	
Remaining Memory Indication	Yes	
User Parameter Settings	Yes	
Remote FAX	Optional	

Fax Reception / Transmission Specifications		
Fax Transmission Specifications	Immediate Transmission	Yes
	Parallel Memory Transmission	Yes
	Memory Transmission	Yes
	Pulse/Tone Selection	Yes
	Pause	Yes
	Serial Broadcasting	Yes (Max. 500 numbers)
	Preview before Transmission	Yes

Fax Reception / Transmission Specifications		
	Displaying the destination prior to transmission	Yes
	Send Later	Yes
	Error Correction Mode	Yes
	Page Retransmission	Yes
	Forwarding	Yes
	Image Rotation	Yes
	Book Fax	Yes
	Closed Network Transmission	Yes
	Double Sided Transmission	Yes
	Handset/Telephone	Option
	Telephone Connection	Option
	Automatic Voice Message	No
	On Hook Dial	Yes
	Tone Transmission	Yes
	Chain Dialing	No
	Reception Mode Selection	Yes
	Automatic Fax/Phone change	No
	Answering Machine interface	No
	Auto Answer Delay Time	Yes
	Busy Tone Detection	Yes
	Silent Ringing Detection	No
Fax Reception Specifications	Automatic Reception	Yes
	Manual Reception	Yes
	Substiute Reception	Yes
	Authorized Reception	Yes
	Multi Copy	Yes
	Closed Network	Yes
	Reception Time Printing	Yes
	Center Mark	Yes
	Checkered Mark	Yes

Fax Reception / Transmission Specifications		
	Night Timer (Weekly timer)	Yes
	Printing by Specified Color	Yes
	Toner Saving Mode	No
	2 in 1 Reception	Yes
	Duplex Reception	Yes

Internet Fax Specifications		
Requirement of Mainframe	G3 fax option is required.	
Number of Address	2,000	
Email Address Input	From LCD operation panel, Web Image Monitor, Smart Device Monitor for Admin	
Attention	“to" or “bcc" (select only one), max 500 attentions	
Destination Combination	G3 Fax destination, IP Fax destination, e-mail destination, folder destination	
Network	Ethernet (1000Base-T*/100Base-TX/10Base-T), Wireless LAN (IEEE802.11a/b/g/n)	*Ethernet 1000Base-T in on boarded but needs to be selected by user.
Transmit Function	E-mail	
Scan Line Density	200 x 100 dpi(Standard character), 200 x 200 dpi(Detail character), 200 x 400 dpi(Fine character: optional) *, 400 x 400 dpi(Super Fine character: optional) **	*Full mode **Super Fine mode is available when optional SAF memory is installed
Maximum Original Size	A3/DLT	
Communication Protocol	Transmission SMTP, TCP/IP Reception POP3, SMTP, IMAP4, TCP/IP	
IPv6 support	Yes	*SIP only
Email Format	Single/Multi-part, MIME Conversion Attached file forms: TIFF-F(MH, MR *, MMR* compression)	*Full mode
Authentication Method	SMTP-AUTH, POP before SMTP, A-POP	
Internet Communication	Send and receive e-mail with a computer that has an e-mail address	

Internet Fax Specifications		
Email Send Functions	Automatic conversion of sent documents to e-mail format and e-mail transmission. Memory transmission only.	
Email Receive Functions	Automatic detection and printing of appended TIFF-F(MH) files and ASCII text. Memory reception only.	

Lan Fax Specifications	
Paper Size	A3, DLT, B4, A4 (default for EU/Asia model), Letter (default for NA model), Legal, B5, A5
Resolution	Super Fine (400 x 400 dpi) Detail (200 x 200 dpi) *default Standard (200 x 100 dpi)
The Number of Selectable Address at one time	500
OS	Windows XP, Server2003, Vista, Server2008, 7, Server2008R2
LAN-Fax Editor Support Language	1.English, 2.German, 3.French, 4.Italian, 5.Spanish, 6.Dutch, 7.Swedish, 8.Norwegian, 9.Danish, 10.Finnish, 11.Hungarian, 12.Czech, 13.Polish, 14.Portuguese, 15.Russian, 16.Brazilian Portuguese, 17.Greek, 18.Traditional Chinese, 19.Simplified Chinese 20.Catalan, 21.Turkish Condition: OS need to have the same language.

IP Fax Specifications	
Network	Ethernet (1000Base-T*/100Base-TX/10Base-T), Wireless LAN (IEEE802.11a/b/g/n)
Scan Line Density	Standard mode: 8 x 3.85 line/mm, 200 x 100dpi, Detail mode: 8 x 7.7 line/mm, 200 x 200dpi, Super Fine mode*: 8 x 15.4 line/mm, 16 x 15.4 line/mm, 400 x 400dpi
Original Size	Maximum A3 or 11" x 17" (DLT)
Max Scanning Size	Standard Size: A3, 297mm x 432mm, Customer: 297mm x 1200mm
Transmission Protocol	Recommended: T.38, TCP, UDP/IP communication, SIP(RFC 3261 compliant), H.323 v2
IPv6 support	Yes
Compatible Machines	IP-Fax compatible machines
IP-Fax Transmission Function	Specify an IP address and send faxes to an IP-Fax compatible fax through a network. Also capable of sending faxes from a G3 fax connected to a telephone line via a VoIP gateway.

IP Fax Specifications	
IP-Fax Reception Function	Receive faxes sent from an IP-Fax compatible fax through a network. Also capable of receiving faxes from a G3 fax connected to a telephone line via a VoIP gateway

Document Server Specifications	
HDD Capacity	190
Max Stored Documents	3,000
Max Pages Per Documents	3,000
Max Pages of All Stored Documents	15,000
Storage Period	1-180 days, or "no limit"

Security Specifications	
Network User Authentication	Yes
IP Address Filtering	Yes
MAC Address Filtering	No
HDD Overwrite	Yes(std)
HDD Encryption	Yes(std)
Copy Guard Security	Yes
Secure Print	Yes
Encrypted Secure Print	Yes
Encrypted PDF Mode	Yes
Digitaly signed PDF	Yes
IP Sec	Yes
Secure Sockets Layer(SSL)	Yes
SNMPv3	Yes
SMTP over SSL	Yes
IPv6	Yes
Transport Layer Security	Yes
Security for IEEE 802.11i,w	Yes
Removable HDD	No

Options

ARDF		
Original Size	**Simplex**	A3, A4, A5, B4, B5, B6 DLT,LG,LT,HLT
	Duplex	A3, A4, A5, B4, B5 DLT,LG,LT,HLT
Original weight	**Simplex**	40 – 128 g/m2
	Duplex	52 – 128 g/m2
Stack Capacity		220 Sheets
Power Consumption		72.2 or less
Dimension		587 x 520 x 175 mm / 23.11 x 20.47 x 6.89 in.
Weight		13.9 or less kg / 30.64 or less lbs.

A4/LT LCIT RT4020	
Paper Size	A4, B5, LT / LEF
Paper Weight	52.3 – 216 g/m2
Paper Capacity	4400 sheets
Power Consumption	Less than 50W
Dimension	13.8 x21.3 x 24.6 in. - 19.7 x21.3 x 24.6 in.(with LG unit)
Weight	Less than 20kg / Less than 44.1 lbs.

LG/B4 Tray for A4/LT LCIT	
Paper Size	B4, LG, A4 LT SEF / LT LEF
Paper Weight	52.3 – 216 g/m2
Paper Capacity	2500 sheets

SRA3++ / 13 x 19 DLT Tray RT4030	
Paper Size	A4, B5, LT / LEF
Paper Weight	52.3 – 216 g/m2
Paper Capacity	2200 sheets
Power Consumption	Less than 50W
Dimension	34.2 x28.7x 25.9 in.
Weight	Less than 82kg / Less than 180.8 lbs.

One Bin Tray M2 (Copy)	
Paper Size	Width: 90 - 330.2 mm Length: 139.7 - 487.7mm - A6/SEF - 13”×19.2”
Paper Weight	52.3 – 300 g/sm
Paper Capacity	500 sheets
Dimension(WxDxH)	13.78 x 19.69 x 6.69 in.
Weight	Less than 4.85

9 Bin Mail Box CS4010 (for SR4090)	
Paper Size	A5-A3 / HLT-DLT
Paper Weight	60 – 128 g/m2
Stack Capacity per Bin	100 sheets
Power Consumption	Less than 48 W
Dimension(WxDxH)	540 x 600 x 660mm / 21.26 x 23.62 x 25.98 in.
Weight	Less than 15kg / Less than 33.07lbs.

3000 Sheet Finisher with 100 Staple SR4110		
Paper Size	Proof Tray	Non-Folded: A6 SEF - SRA3++, B6 SEF, HLT - DLT, 12"x 18", 13" x 19.2" Z-Folded: A3, B4, A4 SEF, DLT, LG, LT SEF）
	Shift Tray	Non-Folded: A5 - SRA3++, HLT - DLT, 12" x 18", 13" x 19.2" Z-folded: A4SEF, B4, A3, LTSEF, LG, DLT
Paper Weight	Proof Tray	Non-Folded : 52 - 216 / Z-Folded: 64 - 80g/m2
	Shift Tray	Non-Folded : 52 - 300 / Z-Folded: 64 - 80g/m2
Stack Capacity	Proof Tray	Non Z-Folded: 500 sheets A4, LT or smaller - 250 sheets B4, LG or larger / Z-Folded: 30 sheets
	Shift Tray	Non Z-Folded:3,000 sheets: A4 LEF, B5 LEF, LT LEF - 1,500 sheets: A3, A4 SEF, B4, B5 SEF, DLT, LG, LT SEF - 1,000 sheets: 12"x 18", 13" x 19.2" - 500 sheets: A5 LEF, HLT LEF - 100 sheets: A5 SEF, HLT SEF / Z-folded sheets: 30 sheets
	Normal Staple Sort	10-100 sheets/set A4 LEF, B5 LEF, LT LEF (#of sets 200-30set) 2-9 sheets/set A4 SEF, B5 SEF, LT SEF (#of sets 150set) 10-50 sheets/set A3 ,B4 (#of sets 150-30set) 2-9 sheets/set DLT, LG (#of sets 150set)
	Z-folded	1 - 10sets: Z-Folded A3 + A4, Z-Folded B4 + B5, Z-Folded DLT + LT (#of sets 30 - 3set)
	Mixed Size	2-50sheets A3&A4LEF, B4&B5LEF, DLT&LTLEF(# of sets 30set)
Staple Capacity		2-100sheets／A4、B5、LT 2-50sheets／A3、B4、DLT、LG 10 Z-folded sheets with 0 non Z-folded sheets 9 Z-folded sheets with 0-10 non Z-folded sheets 8 Z-folded sheets with 0-20 non Z-folded sheets 7 Z-folded sheets with 0-30 non Z-folded sheets 6 Z-folded sheet with 0-40 non Z-folded sheets 5 Z-folded sheets with 0-50 non Z-folded sheets 4 Z-folded sheets with 0-60 non Z-folded sheets 3 Z-folded sheets with 0-70 non Z-folded sheets 2 Z-folded sheets with 0-80 non Z-folded sheets 1 Z-folded sheet with 0-90 non Z-folded sheets
Staple Paper Size		Non Z-folded - A3 - B5, DLT - LT / Z-Folded sheets - A3, B4, DLT
Staple Paper Weight		Non Z-folded sheets - 64 -90 / Z-folded sheets - 64 -80 g/m2
Staple Position		Top, Bottom, 2 Staple, Top-slant
Staple Cartridge Capacity		5,000 pins per cartridge
Power Consumption		Less than 120 Watts

3000 Sheet Finisher with 100 Staple SR4110		
Dimension(WxDxH)		806x 730 x 980 mm / 31.73x 28.74x 38.58 in.
Weight		Less than 75kg / 165 lbs
Punch Unit	Paper Size	NA, EU/2 Holes - SEF A5 - A3, HLT - DLT LEF A5 - A4 HLT, LT
		NA/3 Holes - SEF B4, A3, DLT LEF A4, B5, LT
		EU/4 Holes - SEF A3, B4, DLT LEF A4, B5, LT
		SC/4 Holes - SEF A5 - A3, HLT - DLT LEF A5 - A4, HLT, LT
	Paper Weight	NA 2/3 Holes/ NA/3 Holes - 52 – 163 g/m2 / Others 52 – 128 g/m2

2000 Sheet Finisher with Saddle Stitch SR4100		
Paper Size	Proof Tray Shift Tray	A3T～A5, B6T,A6T, 12”×18”, HLT～DLT,SRA3++,13”×19.2” Custom size (90×139.7～330.2×487.7) Z folded: A3SEF-A4SEF, 12" x 18", LTSEF-DLTSEF, 8K
Paper Weight	Proof Tray	52 – 220 g/m2 Z folded - 64-105
	Shift Tray	52 – 300 g/m2 Z folded - 64-105
Stack Capacity	Proof Tray	250 sheets A4, 8 1/2"x11" or smaller / 50 sheets B4, 8 1/2"x14 or larger Z-folded - 20 sheets A4, 8 1/2"x11" or smaller/ 30 sheets B4, 8 1/2"x14 or larger
	Shift Tray	3,000 sheets A4 LEF, LT LEF 1,500 sheets A3 SEF, A4 SEF, B4 SEF, B5, DLT SEF, LG SEF, LT SEF 12"x18" SEF, SRA3++, 13" x 19.2" 500 sheets A5 LEF 100 sheets A5 SEF, B6 SEF, A6 SEF, HLT SEF 1,000 sheets length 182mm or longer and shorter than 488mm 500 sheets length 148mm or longer and shorter than 182mm Z-folded - 20 sheets A4, 8 1/2"x11" or smaller/ 30 sheets B4, 8 1/2"x14 or larger
	Normal Staple Sort	2-19 sheets/set A4/LT LEF (#of sets 150set) Max Stack Capacity 2,000sheets 20-65 sheets/set A4/LT LEF (#of sets 150-46set) Max Stack Capacity 2,000sheets 2-14 sheets/set A4/LT SEF ,B5 (#of sets 100set) Max Stack Capacity 1,000sheets 15-65 sheets/set A4/LT SEF ,B5 (#of sets 100-23set) Max Stack Capacity 1,000sheets 2-14 sheets/set Paper size not listed above (#of sets 100set) Max Stack Capacity 1,000sheets 5-65 sheets/set Paper size not listed above (#of sets 100-23set) Max Stack Capacity 1,000sheets
	Saddle Stitch Staple Sort	2-5 sheets/set (#of sets 30set) 6-10 sheets/set (#of sets 15set) 11-15 sheets/set (#of sets 10set) 16-20 sheets/set (#of sets 6 set)
Staple Capacity	Normal Staple	Non-Folded:65 sheets:B5 - A3, LT - DLT When 80.1-105gsm paper is Z-Folded: 1 Z-folded sheets with 0-52 non Z-folded sheets 2 Z-folded sheets with 0-39 non Z-folded sheets 3 Z-folded sheets with 0-26 non Z-folded sheets 4 Z-folded sheets with 0-13 non Z-folded sheets 5 Z-folded sheet with 0 non Z-folded sheets When 52-80gsm paper is Z-Folded: 1 Z-folded sheets with 0-57 non Z-folded sheets 2 Z-folded sheets with 0-49 non Z-folded sheets 3 Z-folded sheets with 0-41 non Z-folded sheets 4 Z-folded sheets with 0-33 non Z-folded sheets

2000 Sheet Finisher with Saddle Stitch SR4100		
		5 Z-folded sheets with 0-25 non Z-folded sheets 6 Z-folded sheets with 0-17 non Z-folded sheets 7 Z-folded sheets with 0-9 non Z-folded sheets 8 Z-folded sheets with 0 non Z-folded sheets
	Saddle Stitch Staple	20 sheets: 4 SEF, B5 SEF LT SEF, LG SEF, DLT SEF, 12" x 18" SEF, RA3++, 13" x 19.2"
Staple Paper Size		B5-A3 SEF/LT-DLT SEF / Z folded: A3SEF, B4SEF, DLTSEF, 8K
		20 sheets:B5-A3SEF
Staple Paper Weight		64 – 105 g/m2 (booklet stapling) , 64 – 105g/m2 (normal stapling)
Staple Position		Top, Bottom, 2 Staple, Top-slant
Staple Cartridge Capacity		5,000 pins per cartridge
Power Consumption		56 Watts
Dimension(WxDxH)		657 x 613 x 960 mm / 25.87 x 24.13x 37.80 in
Weight		Less than 53kg - Less than 56kg with Punch Unit / Less than 116.84lbs - Less than 123.46lbs with Punch Unit
Punch Unit	Paper Size	NA, EU/2 Holes - SEF A5 - A3, HLT - DLT LEF A5 - A4 HLT, LT
		NA/3 Holes - SEF B4, A3, DLT LEF A4, B5, LT
		EU/4 Holes - SEF A3, B4, DLT LEF A4, B5, LT
		SC/4 Holes - SEF A5 - A3, HLT - DLT LEF A5 - A4, HLT, LT
	Paper Weight	All Units - 52.3 – 256 g/m2

FD4000 Multi-Folding Unit		
Paper Size		<Single Sheet Mode> Z folding: A4 - A3, 8 1/2" x 11" - 12" x 18" Half folding: B5 - A3, 8 1/2"x 11"- 13" x 19.2" Letter folding: B5 - A3, 8 1/2" x 11" - 12" x 18" Double parallel/Gate folding: B5 - A3, 8 1/2 x 11" - 12" x 18" <Multiple Sheet Mode> Half folding: B5 - A3, 8 1/2"x 11"- 13" x 19.2" Letter folding-out: B5 - B4, 8 1/2" x 11" - 8 1/2" x 14" Letter folding-in: B5 - A3, 8 1/2" x 11" - 12" x 18"
Paper Weight		Single Sheet Mode> 64-105 g/m2 / Multiple Sheet Mode> 64-80 g/m2 Single Sheet Mode> 17Bond-28Bond / Multiple Sheet Mode> 17Bond-21Bond
Folding Type	Single Sheet	Z-fold, Half fold,Letter fold-in,Letter fold-out, Double Parallel, Gate Fold
	Multiple Sheets	Half fold,Letter fold-in,Letter fold-out. Up to 3 sheets
Power Consumption		Less than 240 W
Dimension(WxDxH)		470 × 980× 730 mm / 18.5x 38.58x 28.74 in.
Weight		Less than 92 kg / Less than 202.82 lbs.

3000 Sheet Finisher with 65 Staple SR4090		
Paper Size	Proof Tray Shift Tray	A3T～A5, B6T,A6T, 12"×18", HLT～DLT,SRA3++,13"×19.2" Custom size (90×139.7～330.2×487.7） Z folded: A3SEF-A4SEF, 12" x 18", LTSEF-DLTSEF, 8K
Paper Weight	Proof Tray	52 – 220 g/m2 / Z Folded : 64 -105g/m2
	Shift Tray	52 – 300 g/m2 / Z Folded : 64 -105g/m2
Stack Capacity	Proof Tray	250 sheets A4, 8 1/2"x11" or smaller / 50 sheets B4, 8 1/2"x14 or larger Z-folded: 20 sheets A4, 8 1/2"x11" or smaller / 30 sheets B4, 8 1/2"x14 or larger

3000 Sheet Finisher with 65 Staple SR4090		
	Shift Tray	3,000 sheets A4 LEF, LT LEF 1,500 sheets A3 SEF, A4 SEF, B4 SEF, B5, DLT SEF, LG SEF, LT SEF 12"x18" SEF, SRA3++, 13" x 19.2" 500 sheets A5 LEF 100 sheets A5 SEF, B6 SEF, A6 SEF, HLT SEF Z-folded: 20 sheets A4, 8 1/2"x11" or smaller / 30 sheets B4, 8 1/2"x14 or larger
	Normal Staple Sort	2-19 sheets/set A4/LT LEF (#of sets 150set) Max Stack Capacity 3,000sheets 20-65 sheets/set A4/LT LEF (#of sets 150-46set) Max Stack Capacity 3,000sheets 2-14 sheets/set A4/LT SEF ,B5 (#of sets 100set) Max Stack Capacity 1,500sheets 15-65 sheets/set A4/LT SEF ,B5 (#of sets 100-23set) Max Stack Capacity 1,500sheets 2-14 sheets/set Paper size not listed above (#of sets 100set) Max Stack Capacity 1,500sheets 5-65 sheets/set Paper size not listed above (#of sets 100-23set) Max Stack Capacity 1,500sheets
	Mixed Sizes	2-65 sheets/et A3/A4LEF, B4/B5LEF, DLT/LTLEF (# of sets 2set)
Staple Paper Size		B5-A3 SEF LT-DLT SEF Z folded : A3SEF, B4SEF, DLTSEF, 8K
Staple Paper Weight		52 – 105 g/m2
Staple Position		Top, Bottom, 2 Staple, Top-slant
Staple Cartridge Capacity		5,000 pins per cartridge
Power Consumption		56 Watts
Dimension(WxDxH)		657 x 613 x 960 mm / 25.87 x 24.13x 37.80 in
Weight		Less than 53kg - Less than 56kg with Punch Unit / Less than 116.84lbs - Less than 123.46lbs with Punch Unit
Punch Unit	Paper Size	NA, EU/2 Holes - SEF A5 - A3, HLT - DLT LEF A5 - A4 HLT, LT
		NA/3 Holes - SEF B4, A3, DLT LEF A4, B5, LT
		EU/4 Holes - SEF A3, B4, DLT LEF A4, B5, LT
		SC/4 Holes - SEF A5 - A3, HLT - DLT LEF A5 - A4, HLT, LT
	Paper Weight	All Units - 52.3 – 256 g/m2

Printer

Settings from Printer Driver: PCL5c, XPS

Resolution	*600dpi*	600dpi	600dpi	1200dpi
Gradation	*Fast*	Standard	Fine	Fast
Printing Mode	*Standard*	Quality Preference	High Quality	Standard
Result	*600x600dpi(1bit)*	600x600dpi(2bit)	600x600dpi(4bit)	1200x1200dpi(1bit)

Settings from Printer Driver: PCL6, PS3（YAPD2.0）

Resolution	600dpi	2400x600dpi	9600x600dpi	1200dpi	4800x1200dpi
Gradation	*	*	*	*	*
Printing Mode	*	*	*	*	*
Result	600x600dpi(1bit)	600x600dpi(2bit)	600x600dpi(4bit)	1200x1200dpi(1bit)	1200x1200dpi(2bit)

*YAPD2.0 does not support Gradation・Printing Mode

MFP Supported Environments

Supported Environments

OS	Type	PCL5c	PCL6	PostScript3	XPS
Windows 2000	Professional	N	N	N	N
	Server	N	N	N	N
	Advanced Server	N	N	N	N
	Detacener Server	N	N	N	N
Windows XP	Professional	Y	Y	Y	N
	Home Edition	Y	Y	Y	N
Windows Vista	Starter	N	N	N	N
	Home Basic	Y	Y	Y	Y*1
	Home Premium	Y	Y	Y	Y*1
	Business	Y	Y	Y	Y*1
	Ultimate	Y	Y	Y	Y*1
	Enterprise	Y	Y	Y	Y*1
Windows 7	Starter	N	N	N	N
	Home Basic	N	N	N	N
	Home Premium	Y	Y	Y	Y
	Professional	Y	Y	Y	Y
	Ultimate	Y	Y	Y	Y
	Enterprise	Y	Y	Y	Y
Windows Server 2003	Standard Edition	Y	Y	Y	N
	Enterprise Edition	Y	Y	Y	N
	Datacenter Edition	N	N	N	N
	Web Edition	N	N	N	N
Windows Server 2003 R2	Standard Edition	Y	Y	Y	N
	Enterprise Edition	Y	Y	Y	N
	Datacenter Edition	N	N	N	N
OS	**Type**	**PCL5c**	**PCL6**	**PostScript3**	**XPS**
Windows Server 2008	Standard Edition	Y	Y	Y	Y
	Enterprise Edition	Y	Y	Y	Y
	Datacenter Edition	N	N	N	N
	Web Edition	N	N	N	N
Windows Server 2008R2	Standard Edition	Y	Y	Y	Y
	Enterprise Edition	Y	Y	Y	Y
	Datacenter Edition	N	N	N	N
	Web Edition	N	N	N	N

*1:SP1 or later is recommended
*RPCS driver has been discontinued.

Point & Print					
Windows OS		**Drivers**			
Server	**Client(Push to)**	**PCL5c**	**PCL6**	**PS**	**XPS**
Windows Server 2003 /2003 R2	7	Y	Y	Y	N
	Vista	Y	Y	Y	N
	XP	Y	Y	Y	N
	W2K Pro	N	N	N	N
Windows Server 2008	7	Y	Y	Y	Y
	Vista	Y	Y	Y	Y
	XP	Y	Y	Y	N
	W2K Pro	N	N	N	N
Windows Server 2008R2	7	Y	Y	Y	Y
	Vista	Y	Y	Y	Y
	XP	Y	Y	Y	N
	W2K Pro	N	N	N	N
Windows 2000 Professional	7	N	N	N	N
Server & Advanced Server	Vista	N	N	N	N
	XP	N	N	N	N
	W2K Pro	N	N	N	N
Windows XP Professional	7	Y	Y	Y	N
	Vista	Y	Y	Y	N
	XP	Y	Y	Y	N
	W2K Pro	N	N	N	N
Windows Vista	7	Y	Y	Y	Y
	Vista	Y	Y	Y	Y
	XP	Y	Y	Y	N
	W2K Pro	N	N	N	N

*RPCS driver has been discontinued.

SAP/R3 Environment (Device Type / Barcode & OCR Package)

Device Type will be provided from SAP itself in SAP Printer Vendor Program.
For the detailed specification, please refer to another announcement to be issued in the future.

Supported Barcode & OCR Fonts	Barcode Fonts	Code 128, Code 39, Code 93, Codabar, 2 of 5 interleaved/Industrial/Matrix, MSI, USPS, UPC/EAN
	OCR Fonts	OCR A, OCR B

Terminal Service & Citrix MetaFrame			
Server	**Driver**		
	PCL5e/6	**RPCS**	**PS**
Win Server 2008R2	Y	Y	Y
Win Server 2008	Y	Y	Y
Win Server 2003	Y	Y	Y
Win Server 2003 R2	Y	Y	Y
Win 2000 Server	N	N	N
Win Server 2003 + MetaFrame	N	N	N
Win 2000 Server + MetaFrame	N	N	N
Win Server 2003 + Citrix PresentationServer4.0	N	N	N
Win 2000 Server + Citrix PresentationServer4.0	N	N	N
Win Server 2003 + Citrix PresentationServer4.5	Y	Y	Y
Win Server 2008 + XenApp5.0	Y	Y	Y
Win Server 2008R2 + XenApp6.0	Y	Y	Y

*RPCS driver has been discontinued.

*XPS driver is not supported in the environment of terminal service and Citrix MetaFrame.
*Even "Yes" is put in the cell, there is a case driver is not supported under the combination of FR and Service Pack of Meta Frame.

*Following combinations of operating system and Citrix MetaFrame are supported.

Windows 2003 Server

1. Windows Terminal Service (RDP protocol)

2. Citrix PresentationServer4.5

Windows 2008 Server

1. Windows Terminal Service (RDP protocol)

2. Citrix XenApp5.0

Windows 2008R2 Server

1. Windows Terminal Service (RDP protocol)

2. Citrix XenApp6.0

Mac OS

	PostScript3	**Printer Utility for Mac**
Mac OS 8.6 or later, Mac OS X classic	N	N
Mac OS X Native: v.10.5 or later	Y	N

UNIX Environment

Unix Platforms	**Version**
Sun Solaris	2.6 / 7 / 8 / 9 /10
HP-UX	10.x/11.x/11i v2/11i v3
Red Hat Linux	Enterprise 4, 5, 6
SCO OpenServer	5.0.6 /5.0.7/6.0
IBM AIX	5L Version 5.3, 6.1, 7.1

Novell Netware

Netware Server	Supported Version Client OS	Netware 6.5 Windows XP professional/Vista/2003/2008/7

*1: Netware option is required

Utility Software

Software	Description
For GW Controller Font Manager	This software enables you to use screen fonts.
Smart Device Monitor for Admin	This software enables you to manage and monitor printers and other devices over the network.
DeskTopBinder – SmartDeviceMonitor for Client	This software enables you to access networked printers to print, monitor or to receive notifications. With DeskTopBinder Lite you can connect client computers to I/O devices enabling you to efficiently manage data.
Device Graphic Update Module	Device Graphic Update module provides bitmap images used to represent the various statuses of devices graphically within Smart Device Monitor or Web Smart Device Monitor. Available on the Ricoh website.
Printer Utility for Mac	This is a utility for Macintosh that provides access to several network printing administrative features.
PS Descriptions	PPD for Mac By interacting with the Adobe PostScript 3 controller in the device, this PPD is able to produce an accurate representation of the screen image.
Mac OS X PPD Installer	This PPD installer is used to install a PPD (Postscript Printer Description) file on Mac OSX. PPD files contain descriptions of printer capabilities such as paper sizes, number of input trays and duplexing. Once the PPD file is installed on the system using the PPD installer, the PS driver that comes bundled with Mac OS X can use the information in the PPD to control the print device and enable full functionality. It supports the Mac OS X 10.1 or later. Please see the Readme file for information about compatibility with versions of Mac OS X.
LAN FAX Driver M10	This software enables you to fax documents directly from your computer. The Address Book Editor and Cover Sheet Editor are installed as well. This software requires the optional fax unit to be installed on the machine. M10 Driver
RPCS Driver	Printer driver for Windows: It is optimized for the Windows GDI. High performance printing can be expected. Regularly used settings can be saved as a "one-click icon" in the driver interface. These settings can be reused easily by clicking the icon.
PCL 6 Driver	Printer driver for B/W printing in Windows. It supports HP PCL XL commands and is optimized for the Windows GDI. High performance printing can be expected.
PCL 5e Driver	Printer driver for printing in Windows. It supports HP PCL 5e commands.
Post Script Driver	By interacting with the Adobe PostScript 3 controller in the device, this driver is able to produce an accurate representation of the screen image.
GW Controller Network TWAIN Driver	TWAIN scanner driver for network connections with new features Combine/Series, compatible with SNMP V3and Network Connection Tool.

Print Driver Information

Features	PCL5c	PCL6	PostScript3		XPS
			Windows XP/Vista/7	Mac OS X 10.5 or Later	
Send to job Binding	N	N	N	N	N
Send to Document Server	Y	Y	Y	Y	Y
Sample Print	Y	Y	Y	Y	Y
Locked Print	Y	Y	Y	Y	Y
Hold Print	Y	Y	Y	Y	Y
Scheduled Print	N	Y	Y	Y	N
Stored Print	Y	Y	Y	Y	Y
Stored Print(Shared)	Y	Y	N	N	N
Store and Print	Y	Y	Y	Y	Y
Store and Print(Shared)	Y	Y	N	N	N
Reduce/Enlarge(Zoom/Scaling)	Y*2	Y	Y	Y	Y
Reduce/Enlarge Centering	N	Y*2	N	N	N
Fit to Paper Size	Y	Y	Y	Y	N
Unauthorized Copy Control	N	Y	Y	Y	N
Layout(N-up, Page per sheet)	Y	Y	Y	Y	Y
Poster	N	Y	N	N	N
Duplex	Y	Y	Y	Y	Y
Booklet1	N	N	N	N	N
Booklet2(Magazine)	Y	Y	Y	Y	Y
Non-Reduction Booklet	Y	N	N	N	N
Layout + Booklet	N	Y	Y	Y	N
Watermark	Y	Y	Y	Y	N
Overlay	N	N	N	N	N
Header/Footer	N	N	N	N	N
Adjust Image Position	N	N	N	N	N
Binding Margins	N	N	N	N	N
Collate	Y	Y	Y	Y	Y
Punch	Y	Y	Y	Y	Y
Staple	Y	Y	Y	Y	Y
Cover Sheet(Front Cover)	Y	Y	N	N	N
Front and Back Cover	Y	Y	N	N	N
Slip Sheet	Y	Y	N	N	Y
Banner Page Print	Y	Y	Y	Y	N
Chaptering	Y	Y	N	N	N
Rotate by 180 degrees	Y	Y	Y	Y	Y
Reverse Order Print	N	Y	Y	Y	Y
Do not print Blank Pages	Y*3	N	N	N	N
Dithering	Y	Y	Y	Y	N
Toner Saving	N	N	Y	Y	Y*4

Black Over Print	Y	Y	Y	Y	N
Gray Reproduction	Y	Y	Y	Y	Y
CLP Color Simulation	Y	Y	Y	Y	N
POP Display	N	Y	Y	Y	N
Print Priority Setting :Quality	N	Y	N	N	N
Print Priority Setting :Speed	N	Y	N	N	N
Print Priority Setting :High Speed	N	N	N	N	N
User ID	Y	Y	Y	Y	Y
User Code	Y	Y	Y	Y	Y
User Authentication	Y	Y	N	N	N
Encryption/Encoding	Y	Y	N	N	N
Mirror image Print	N	N	Y	N	N
Negative Image Print	N	N	N	N	N
Edge to Edge Print	Y	Y	Y	Y	N
Limitation Seting	Y	N	N	N	N
Classification Code	Y	Y	N	N	N

Y: supported
N: not supported
*1: Printer Driver CD does not include PCL5e. It will be provided on Web site.

Counters

Counter Type:

	Type	Description of what is included in Meter	Q'ty	Location	Total number of digits
1	Electronic	Total Counter (B & W)	1	Control Panel	9
2	Electronic	Total Counter (Color)	1	Control Panel	9
3	Electronic	Copier Counter (B & W)	1	Control Panel	9
4	Electronic	Copier Counter (Color)	1	Control Panel	9
5	Electronic	Printer Counter (B & W)	1	Control Panel	9
6	Electronic	Printer Counter (Color)	1	Control Panel	9
7	Electronic	Scanner Counter	1	Control Panel	9

Counter Specifications

	Type	Description of what is included in Meter	Max Value	Next value after max value
1	Electronic	Total Counter (B & W)	999,999,999	Roll over to Zero again
2	Electronic	Total Counter (Color)	999,999,999	Roll over to Zero again
3	Electronic	Copier Counter (B & W)	999,999,999	Roll over to Zero again
4	Electronic	Copier Counter (Color)	999,999,999	Roll over to Zero again
5	Electronic	Printer Counter (B & W)	999,999,999	Roll over to Zero again
6	Electronic	Printer Counter (Color)	999,999,999	Roll over to Zero again

- User Tools / Counter → Counter → OK →Print → Start

Paper

Recommended Throughput Material
Not Applicable

Non Recommended Throughput Material
Refer to pages in the Operators Instructions Hardware Guide.

Do not use any of the following kinds of paper or a fault might occur:

- Aluminum Foil, Carbon paper,
- Conductive paper
- Paper meant for an inkjet printer
- Bent, folded, or creased paper
- Torn paper
- Thermal fax paper
- Art paper
- Paper with perforated lines
- Hemmed-edge paper
- Tab stock
- Slippery paper
- Perforated paper
- Rough paper
- Thin paper with little stiffness
- Paper with a dusty surface

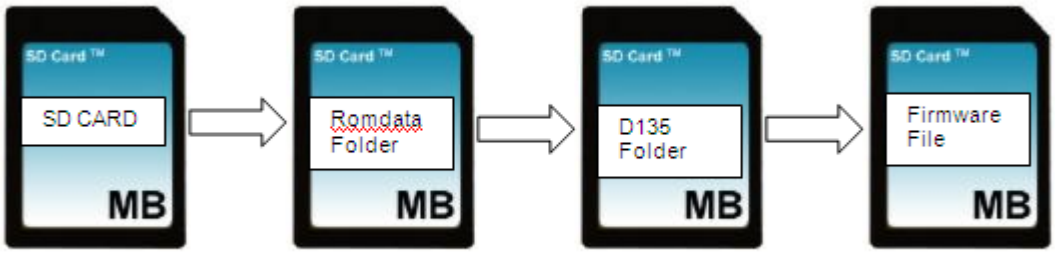
Special Paper
Not Applicable

Firmware Information

Firmware

Firmware SD Card	Firmware Type
System/Copy	Controller
Engine	Engine (IOB/BCU)
LCDC	Operation Panel
ADF	Document Feeder
AICS	Data
Network Support	Network
Language	Operation Language
NetDocBox	Network Document box
FCU	Fax Controller
FAX	Fax operation
Printer	Printer Operation
Scanner	Scanner Operation
RFax	Remote FAX
Websupport	Web Support
WebUApl	Web User Application

SD Card Arrangement



NOTE: Base machine, DDST and PCL for DDST require a IC card. When the GW controller is installed an SD card is require. For more information on the romdata folder structure refer to D359 printer/scanner option firmware update procedure.

Contact Information

Name	Contact
Technical Services Call Center (Hotline)	Ricoh: (800) 537-4264 Savin: (800) 291-6044 Lanier: (800) 333-3147
Application Help Desk (Software Issues)	Ricoh Phone Card: 2 Call - 000781MIU, 5 Call - 000900MIU Savin Phone Card: 2 Call - 12992, 5 Call - 12993
Technology Solutions Resource Center	http://www.tscweb.net
Headquarter Web Sites	Ricoh Corporation: http://www.ricoh-usa.com Savin Corporation: http://www.savin.com Gestetner Corporation: http://www.gestetnerusa.com/ Lanier Corporation: http://www.lanier.com
Material Safety Data Sheets	(800) 336-MSDS (6737)
Ricoh Learning Institute	http://ricohuniversity.ricoh-usa.com/

Training Information

Training Plan

The D137/D138 Pro models have many features in common with D135/D136 Office models. Therefore, a basic training should be held for the whole series, and an advanced training on unique features for D137/D138 Pro models

Technicians of D137/D138 Pro models should study Color Controller E-22B and E-42B.

Documentation

Description	RFG E-Source Number
Field Service manual	rfg056474
Parts catalog 3DPC	rfg057671
Point to Point	rfg057330
Detailed Descriptions	rfg056438
Firmware History	rfg057254

Please refer to the http://www.ricohuniversity.com/ web site for the most up to date training information.

Please be aware that once a model or series is out of production, the Field Service Manual, Technical Service Bulletins and Ricoh University should be referenced for the most current information. Check the TSC website and e-source.

Revisions

4.1 Option Updated